CYTOTOXIC FACTORS FOR MODULATING CELL DEATH
Serial Number - Unassigned   Case Number – 11472/11   Figure 1 of 15 figures   Sheet 1 of 15 sheets of drawings
Inventor – Das Gupta et al.

Fig. 1

CYTOTOXIC FACTORS FOR MODULATING CELL DEATH
Serial Number - Unassigned   Case Number – 11472/11   Figure 2 of 15 figures   Sheet 2 of 15 sheets of drawings
Inventor – Das Gupta *et al.*

Fig. 2

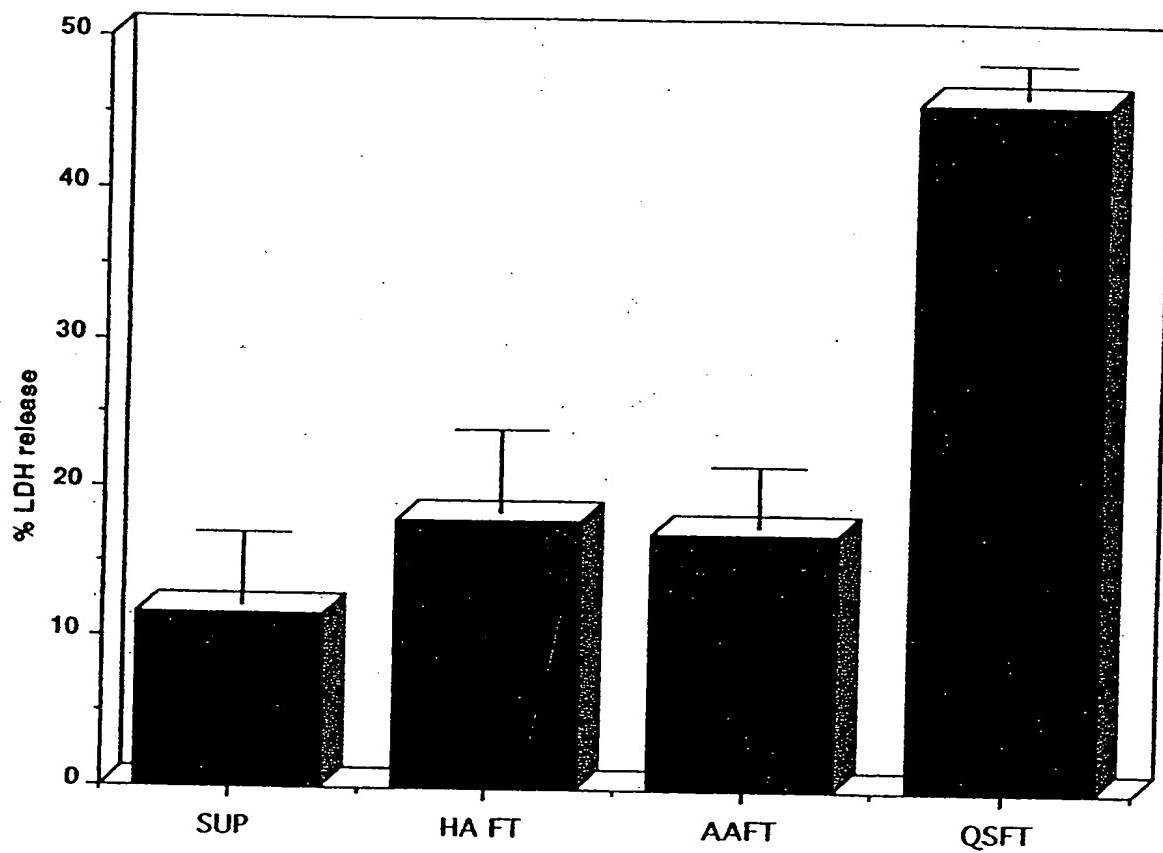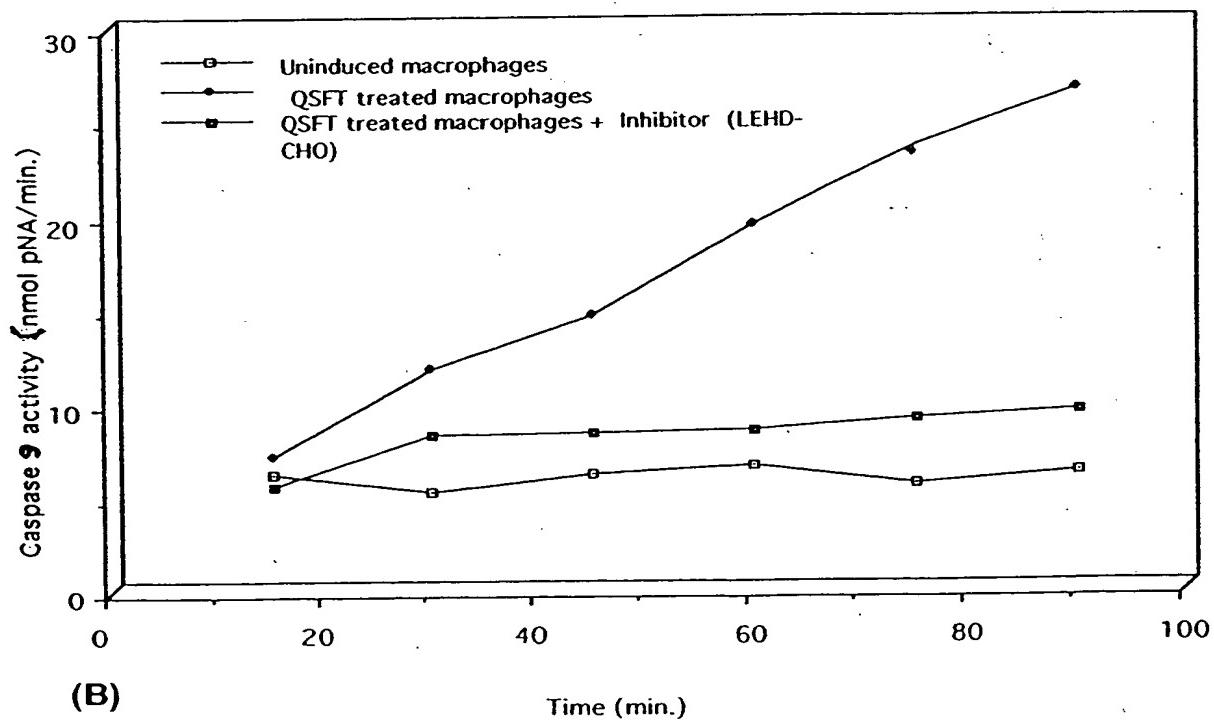CYTOTOXIC FACTORS FOR MODULATING CELL DEATH
Serial Number - Unassigned   Case Number – 11472/11   Figure 3 of 15 figures   Sheet 3 of 15 sheets of drawings
Inventor – Das Gupta et al.

Fig. 3

(A)

(B)

CYTOTOXIC FACTORS FOR MODULATING CELL DEATH
Serial Number - Unassigned   Case Number – 11472/11   Figure 4 of 15 figures   Sheet 4 of 15 sheets of drawings
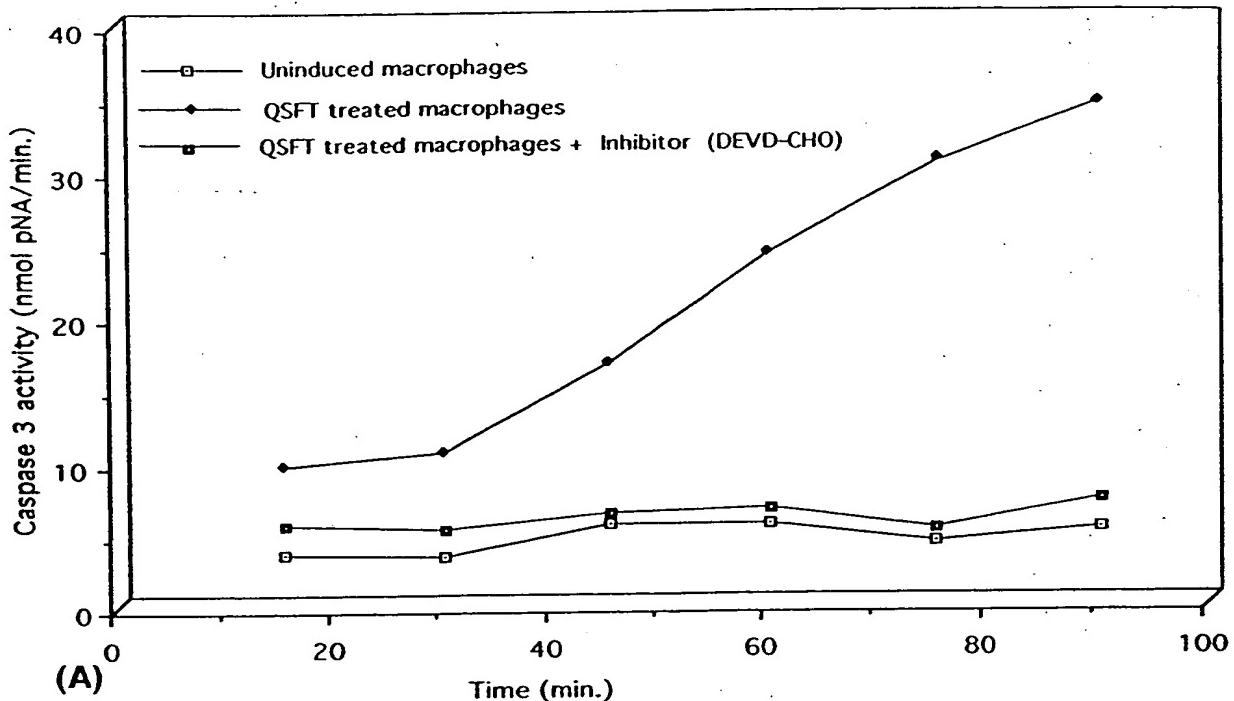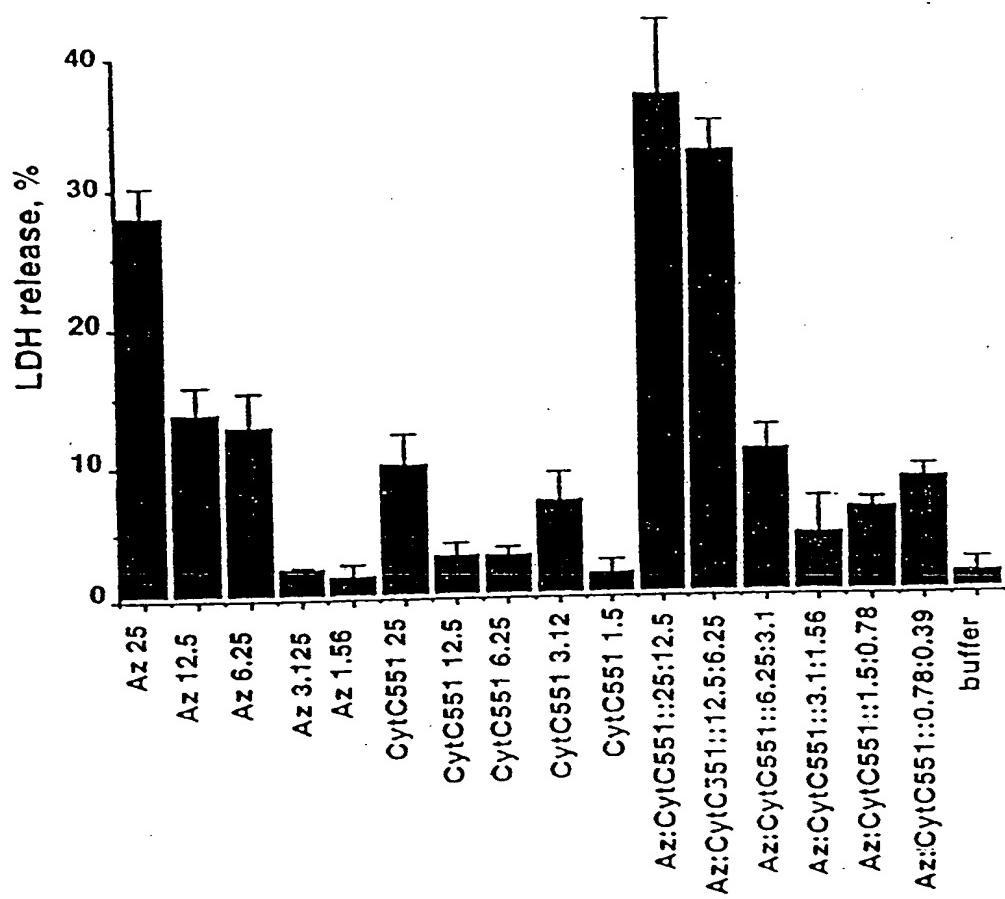Inventor – Das Gupta et al.

Fig. 4

CYTOTOXIC FACTORS FOR MODULATING CELL DEATH
Serial Number - Unassigned   Case Number – 11472/11   Figure 5 of 15 figures   Sheet 5 of 15 sheets of drawings
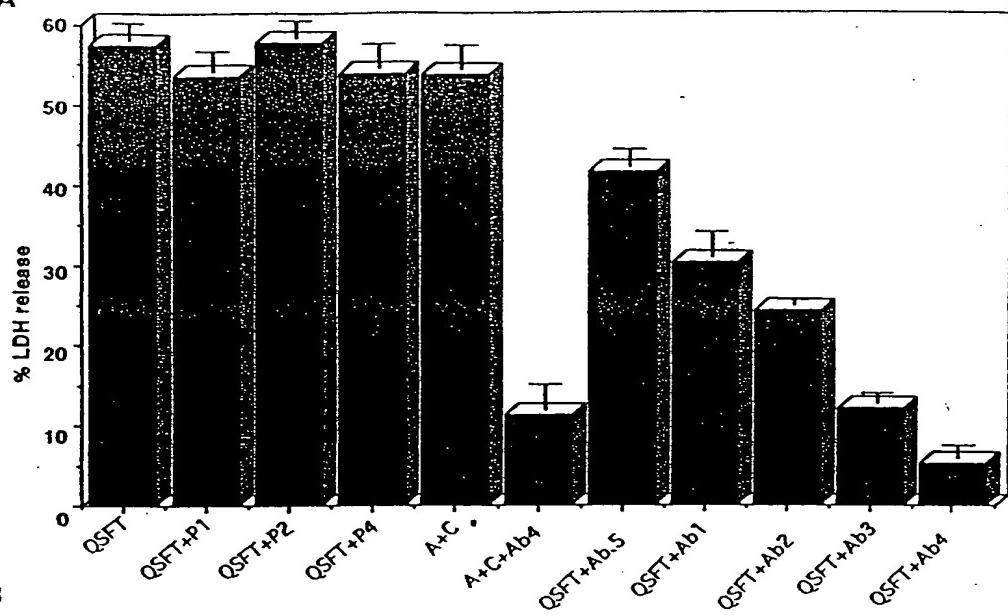Inventor – Das Gupta et al.

Fig. 5

CYTOTOXIC FACTORS FOR MODULATING CELL DEATH
Serial Number - Unassigned   Case Number – 11472/11   Figure 6 of 15 figures   Sheet 6 of 15 sheets of drawings
Inventor – Das Gupta et al.

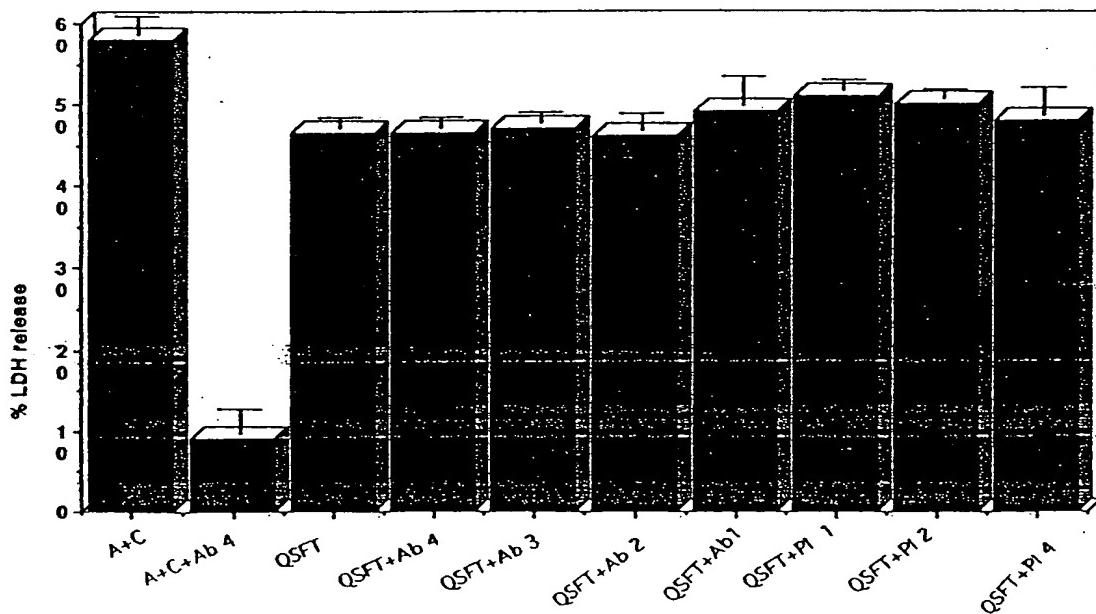# Fig. 6

CYTOTOXIC FACTORS FOR MODULATING CELL DEATH
Serial Number - Unassigned   Case Number – 11472/11   Figure 7 of 15 figures   Sheet 7 of 15 sheets of drawings
Inventor – Das Gupta et al.

Fig. 7

CYTOTOXIC FACTORS FOR MODULATING CELL DEATH
Serial Number - Unassigned   Case Number – 11472/11   Figure 8 of 15 figures   Sheet 8 of 15 sheets of drawings
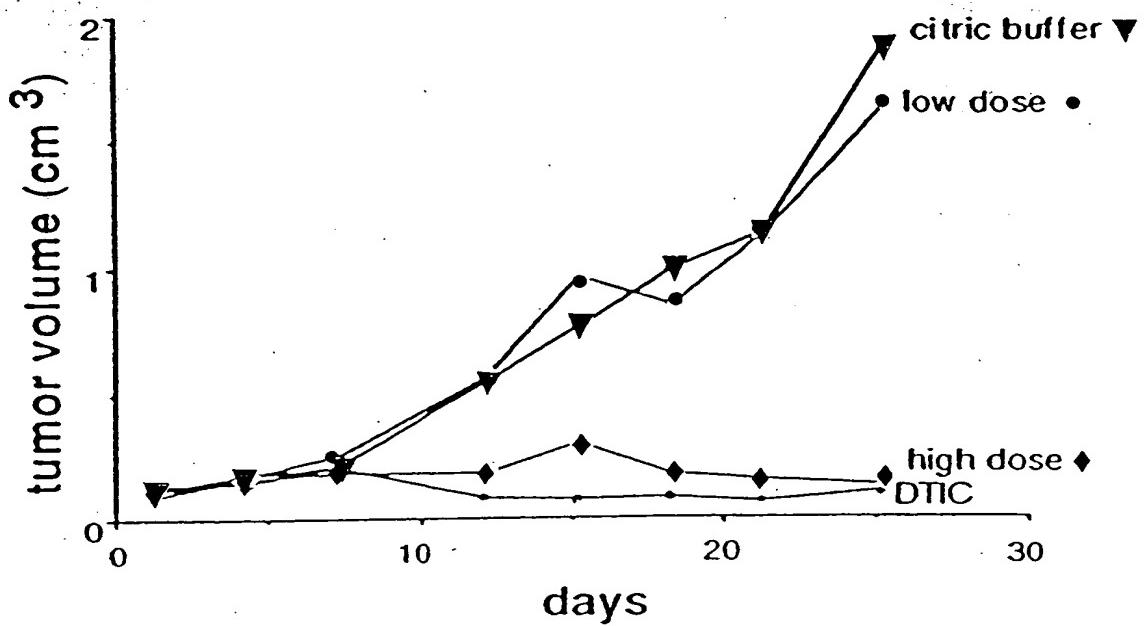Inventor – Das Gupta et al.

Fig. 8

CYTOTOXIC FACTORS FOR MODULATING CELL DEATH
Serial Number - Unassigned   Case Number – 11472/11   Figure 9 of 15 figures   Sheet 9 of 15 sheets of drawings
Inventor – Das Gupta *et al.*

Fig. 9

CYTOTOXIC FACTORS FOR MODULATING CELL DEATH
Serial Number - Unassigned   Case Number – 11472/11   Figure 10 of 15 figures   Sheet 10 of 15 sheets of drawings
Inventor – Das Gupta *et al.*

Fig. 10
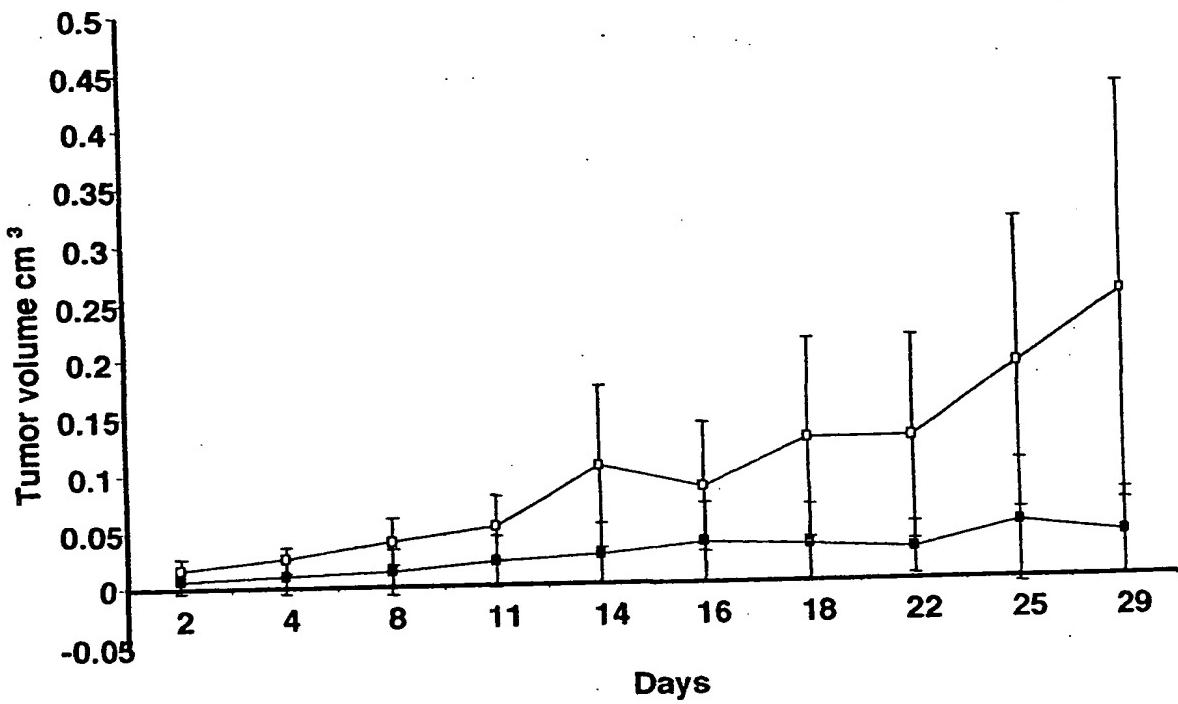
CYTOTOXIC FACTORS FOR MODULATING CELL DEATH
Serial Number - Unassigned   Case Number – 11472/11   Figure 11 of 15 figures   Sheet 11 of 15 sheets of drawings
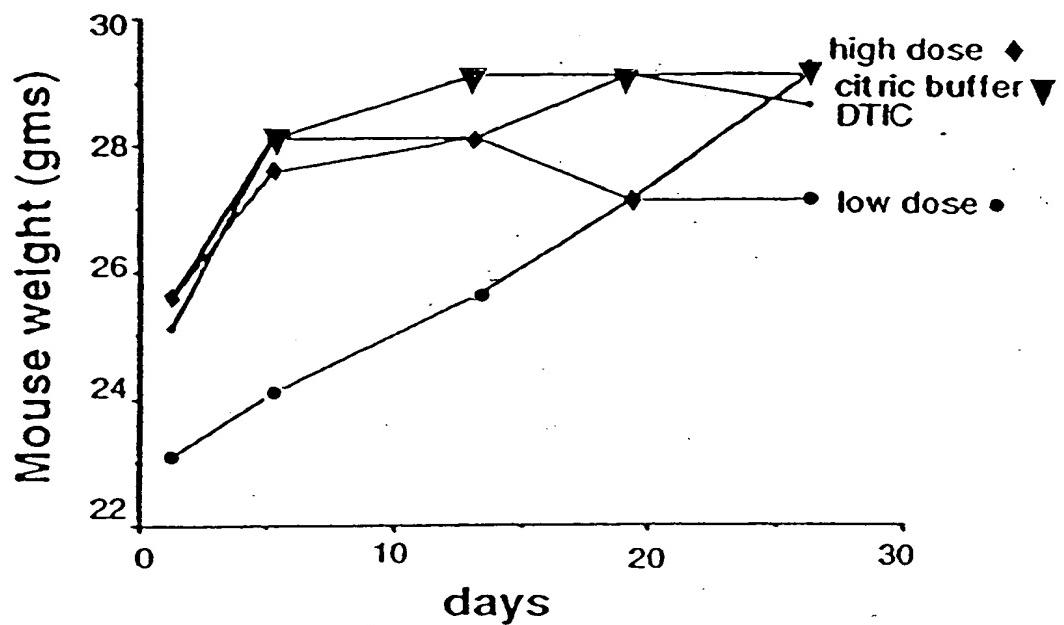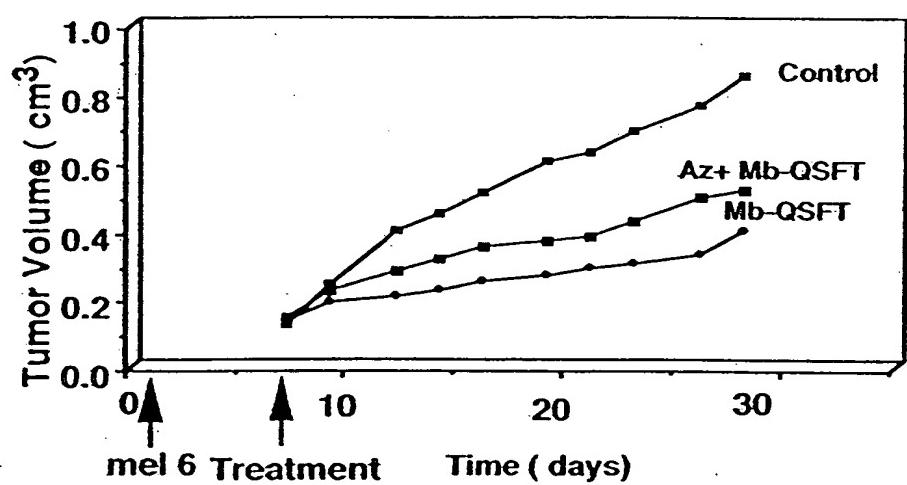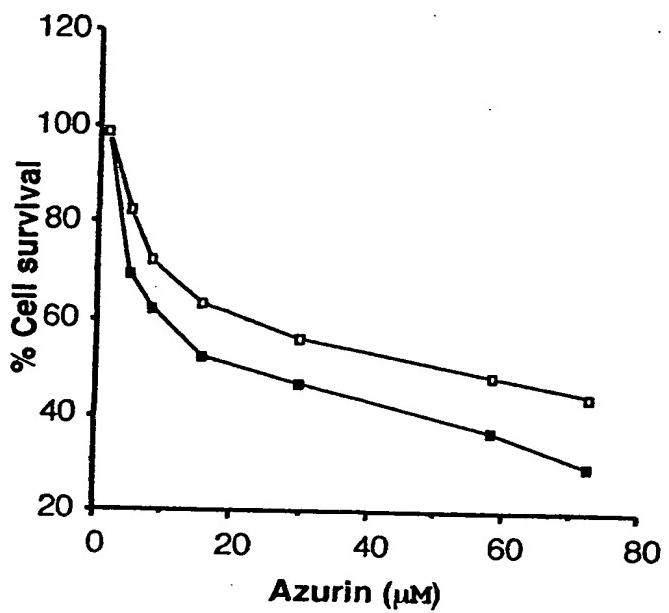Inventor – Das Gupta *et al.*

Fig. 11

A

```
                                    EP1                                    EP2      EP3   EP4
                                                          44 46                            64
PA    1:-AECSVDIQGNDQMQFNTNAITVDKSCKQFTVNLSHPGNLPKNVMGHNWVLSTAADMQGVVTDGM  64
AF    1:--ACDVSIEGNDSMQFNTKSIVVDKTCKEFTINLKHTGKLPKAAMGHNVVVSKKSDESAVATDGM  63
AX    1:-AQCEATIESNDAMQYNLKEMVVDKSCKQFTVHLKHVGKMAKVAMGHNWVLTKEADKQGVATDGM  64
BB    1:-AECSVDIAGTDQMQFDKKAIEVSKSCKQFTVNLKHTGKLPRNVMGHNWVLTKTADMQAVEKDGI  64
MJ    1:-ASCETTVTSGDTMTYSIRSISVPASCAEFTVNFEHKGHMPKTGMGHNWVLAKSADVGDVAKEGA  64
NM    1:-GNCAATVESNDNMQFNTKDIQVSKACKEFTITLKHTGTQPKASMGHNLVIAKAEDMDGVFKDGV  64
PF    1:-AECKTTIDSTDQMSFNTKAIEIDKACKTFTVELTHSGSLPKNVMGHNWVISKQADMQPIATDGL  64
PC    1:-AECKVDVDSTDQMSFNTKEITIDKSCKTFTVNLTHSGSLPKNVMGHNWVLSKSADMAGIATDGM  64
XF    1:KT-CAVTISANDQMKEDQNTIKIAAECTHVNLTLTHTGKKSARVMGHNWVLTKTTDMQAVALAGL  64
```

```
                           EP5    EP6                                112    117    EP7
PA    65:ASGLDKDYLKPDDSRVIAHTKLIGSGEKDSVTFDVSKLKEGEQYMFFCTFPGHSALMKGTLTLK-  128
AF    64:KAGLNNDYVKAGDERVIAHTSVIGGGETDSVTFDVSKLKEGEDYAFFCSFPGHWSIMKGTIELGS  128
AX    65:NAGLAQDYVKAGDTRVIAHTKVIGGGESDSVTFDVSKLTPGEAYAYFCSFPGHWAMMKGTLKLSN  129
BB    65:AAGLDNQYLKAGDTRVLAHTKVLGGGESDSVTFDVAKLAAGDDYTFFCSFPGHGALMKGTLKLVD  129
MJ    65:HAGADNNFVTPGDKRVIAFTPIIGGGEKTSVKFKVSALSKDEAYTYFCSYPGHFSMMRGTLKLEE  129
NM    65:GAADT-DYVKPDDARVVAHTKLIGGGESSLTLDPAKIADGD-YKFACTFPGHGALMNGKVTLVD  127
PF    65:SAGIDKNYLKEGDTRVIAHTKVIGAGEKDSLTIDVSKLNAAEKYGFFCSFPGHISMMKGTVTLK-  128
PC    65:AAGIDKDYLKPGDSRVIAHTKIIGSGEKDSVTFDVSKLTAGESYEFFCSFPGHNSMMKGAVVLK-  128
XF    65:HATLADNYVPKADPRVIAHTAIIGGGERTSITEPTNTLSKNVSYTFFCSFPGHWALMKGTLNFGG  129
```

B

```
                                                                   44 46                          64
wt azurin  1:AECSVDIQGNDQMQFNTNAITVDKSCKQFTVNLSHPGNLPKNVMGHNWVLSTAADMQGVVTDGMASGLDK
S1         1:AECSVDIQGNDQMQFNTNAIQVDKSCKQFTVNLSHPGNLPKNVMGHNWVLSTAADMQGVVTDGMASGLDK
S2         1:AECSVDIQGNDQMQFNTNAIQVDKSCKQFTVNLSHPGNLPKNVMGHNWVLSTAADMQGVVTDGMASGLDK
S3         1:AECSVDIQGNDQMQFNTNAIQVDKSCKQFTVNLSHPGNLPKNVMGHNWVLSKSADMQGVVTDGMASGLDK
S3S5       1:AECSVDIQGNDQMQFNTNAIQVDKSCKQFTVNLSHPGNLPKNVMGHNWVLSKSADMQGVATDGMAAALDK
S3S5S4S6   1:AECSVDIQGNDQMQFNTNAIQVDKSCKQFTVNLSHPGNLPKNVMGHNWVLSKSADMQPIATDGMAAALDK
S4         1:AECSVDIQGNDQMQFNTNAIQVDKSCKQFTVNLSHPGNLPKNVMGHNWVLSKSADMQMIVTDGMASGLDK
S6         1:AECSVDIQGNDQMQFNTNAIQVDKSCKQFTVNLSHPGNLPKNVMGHNWVLSKSADMQPIATDGMASGLDK
wtS5       1:AECSVDIQGNDQMQFNTNAITVDKSCKQFTVNLSHPGNLPKNVMGHNWVLSTAADMQGVVTDGMAAALDK
wtS5S4S6   1:AECSVDIQGNDQMQFNTNAITVDKSCKQFTVNLSHPGNLPKNVMGHNWVLSTAADMQPIATDGMAAALDK
                                    EP1                        112  117  EP2      EP3   EP4
```

```
                                                                  112    117    EP2      EP3   EP4
wt azurin  71:DYLKPDDSRVIAHTKLIGSGEKDSVTFDVSKLKEGEQYMFFCTFPGHSALMKGTLTLK
S1         71:DYLKPDDSRVIAHTKLIGSGEKDSVTFDVSKLKEGEQYMFFCTFPGHSALMKGTLKLK
S2         71:DYLKPDDSRVIAHTKLIGSGEKDSVTFDVSKLKEGEQYMFFCTFPGHSALMKGTLKLK
S3         71:DYLKPDDSRVIAHTKLIGSGEKDSVTFDVSKLKEGEQYMFFCTFPGHSALMKGTLKLK
S3S5       71:DYLKPDDSRVIAFTPIIGSGEKDSVTFDVSKLKEGEQYMFFCTFPGHSALMKGTLKLK
S3S5S4S6   71:DYLKPDDSRVIAFTPIIGSGEKDSVTFDVSKLKEGEQYMFFCTFPGHSALMKGTLKLK
S4         71:DYLKPDDSRVIAHTKLIGSGEKDSVTFDVSKLKEGEQYMFFCTFPGHSALMKGTLKLK
S6         71:DYLKPDDSRVIAHTKLIGSGEKDSVTFDVSKLKEGEQYMFFCTFPGHSALMKGTLKLK
wtS5       71:DYLKPDDSRVIAFTPIIGSGEKDSVTFDVSKLKEGEQYMFFCTFPGHSALMKGTLTLK
wtS5S4S6   71:DYLKPDDSRVIAFTPIIGSGEKDSVTFDVSKLKEGEQYMFFCTFPGHSALMKGTLTLK
                EP5    EP6                                        EP7
```

CYTOTOXIC FACTORS FOR MODULATING CELL DEATH
Serial Number - Unassigned   Case Number – 11472/11   Figure 12 of 15 figures   Sheet 12 of 15 sheets of drawings
Inventor – Das Gupta et al.

Fig. 12

CYTOTOXIC FACTORS FOR MODULATING CELL DEATH
Serial Number - Unassigned   Case Number – 11472/11   Figure 13 of 15 figures   Sheet 13 of 15 sheets of drawings
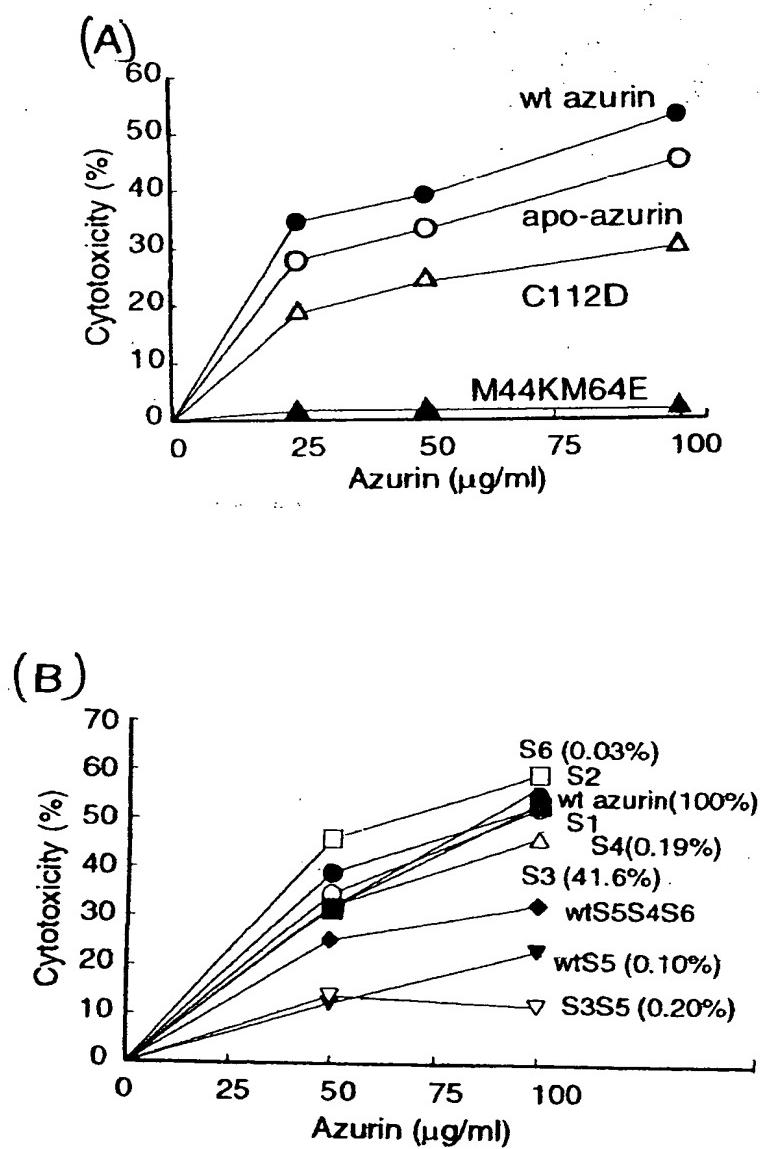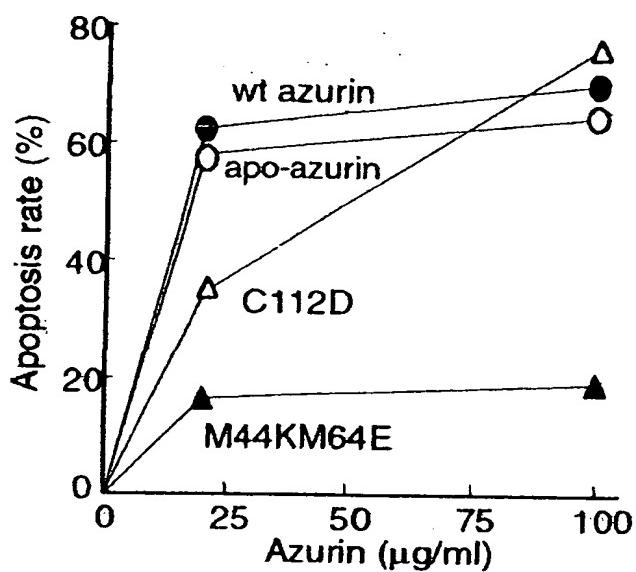Inventor – Das Gupta et al.

Fig. 13

FIG. 13

CYTOTOXIC FACTORS FOR MODULATING CELL DEATH
Serial Number - Unassigned   Case Number – 11472/11   Figure 14 of 15 figures   Sheet 14 of 15 sheets of drawings
Inventor – Das Gupta et al.

Fig. 14

CYTOTOXIC FACTORS FOR MODULATING CELL DEATH
Serial Number - Unassigned   Case Number – 11472/11   Figure 15 of 15 figures   Sheet 15 of 15 sheets of drawings
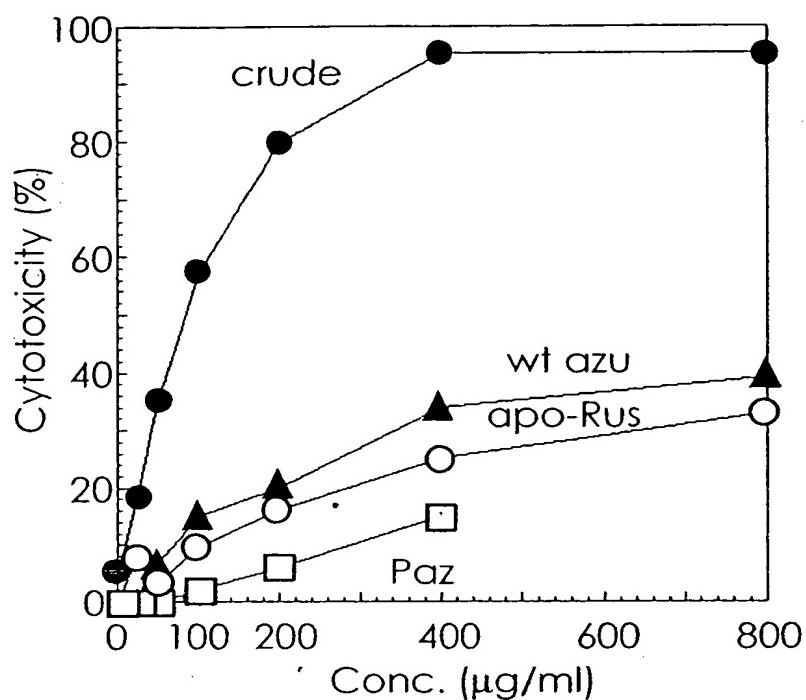Inventor – Das Gupta et al.

Fig. 15